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| | | Page : 9 pages |
| TFT LCD MONITOR 10.4" | | USER'S MANUAL |
| <h1>INOV100</h1> <h2>- With Touch Screen (Optional)</h2> | | |

1. Introduction

INOV100 is TFT 10.4" Monitor with Analog RGB input. Also it is easy to install it even small space, designed mainly for the industrial field.

This is widely applied to public information system, industrial machinery, building automation, and production line monitoring system, etc. Also, there is OSD function for adjusting display quality like CRTs. Touch screen can be equipped by option if you want it instead of mouse. (Model No : INOV100-T)

2. Safety Precautions

The safety recommendations outlined in this section are to be read, understood and followed before operating the product. Keep this information in a safe place for future reference. Failure to comply with any of the following safety procedures could result in serious hazard.

- A. Do not operate product for any purposes other than its intended use.
- B. This product is intended for indoor use only.
- C. Do not operate product if power cord is damaged in any way.
- D. Do not insert object into openings.
- E. Do not immerse product in water or permit liquids to spill inside.
- F. Turn off power when attended or not in use unplug product before moving it or when it is not in use for an extended period of time.

Note : These specifications are subject to change for up-date without notification

3. Specifications

3.1 LCD Monitor Specifications

- Display Size : 10.4" TFT Color LCD
- Active Area(mm) : 211.2 x 158.4
- Resolution : 800 x 600 dots
- Aspect Ratio : 4:3
- Max .Colors : 262,144 color
- Pixel Pitch(mm) : 0.264 (H) x 0.264 (W)
- Luminance(cd/m²) : Typ. 250
- Contrast Ratio : Typ. 400 : 1
- Backlight Life Time : Min. 20,000 Hr
- Viewing Angle : Min. Hor. 65°/65°, Ver. 45°/45°
- Response Time(ms) : Typ. 6(R)/19(D)
- Screen Adjustment : OSD (On Screen Display) include Auto Adjustment compliant
- Mount Type : Wall Mount & Stand Type & VESA Standard ARM Mount
- Supporting Analog R.G.B signal (Analog VGA) input
- Chassis Material : Front – Aluminum, Rear - Steel
- RGB Input : 0.7Vpp±10%, 75 Ohms
- Input Rating : Adapter
- Ampere requirement : AC 100V @ 0.45A, AC 200V @ 0.23A, DC 12V @ 1.25A
- Power requirement : 15W
- Power Consumption : Max. 15W
- Power Saving Mode : Less than 3W
- Storage Temperature : -20 ~ 60°C
- Operating Temperature : 0 ~ 50°C
- Storage Humidity : 5 ~ 90% RH, non-condensing
- Operating Humidity : 20 ~ 90% RH, non-condensing
- Operating Altitude : 10,000 Feet
- Dimensions (W x H x D) : 300 x 248 x 46 mm
- Weight : Net ; 3.7 kg, Gross ; 5.8 kg
- Refresh Rate : Max. 800 x 600 @ 75Hz (60Hz for optimal display)
- Main Frequency : Max. 49.5MHz
- Horizontal Frequency : 31.5 ~ 46.875KHz

* Compatibility of Vertical Frequency

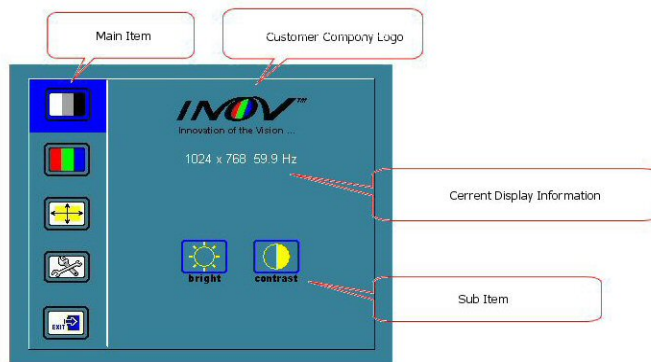
| PC | MODE | Vertical Frequency (Hz) |
|-----|---------------|-------------------------|
| IBM | 640 x 480 | 60 / 72 / 75 |
| | 800 x 600 | 56 / 60 / 72 / 75 |
| | DOS 640 x 350 | 70 |
| | DOS 640 x 400 | 70 |
| | DOS 720 x 400 | 70 |

3.2 Touch Screen Specifications (Optional)

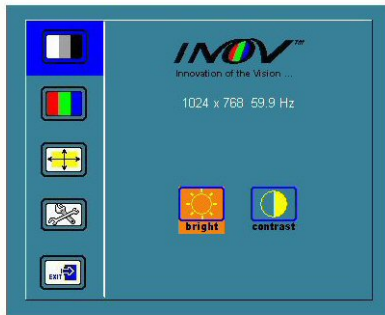
- Touch Screen Type : Analog Resistive 8-Wire Type
- Touch Screen Controller Interface : Serial (RS-232)
- Touch Screen Drivers : MS-DOS, Windows 3.1/95/98/ME/NT/2000/2003, Linux
- Drift compensation for fluctuations in the temperature and humidity
- Antiglare scratch resistant finish
- Gloved or Ungloved finger or Stylus activation
- Optically bonded buffer layer
- Transmittance : Typ. > 74%
- Durability : Point Activation Typ. 1,000,000
Gouge Hardness 4H per ASTM D3363-92a

4. OSD Functions

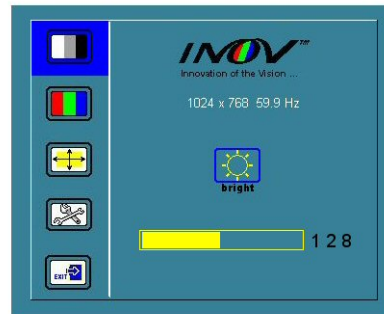
Selected Menu Button :







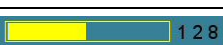
Selected SEL Button:








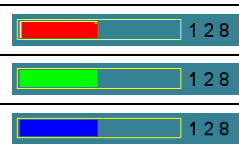





Selected Sub item:






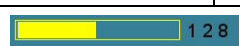






4.1.1 Brightness & Contrast

| | | |
|---|--|---|
|  |  Brightness Item |  128 Adjust Panel Brightness Level. |
| |  Contrast Item |  128 Adjust Panel Contrast Level. |










4.1.2 Color Control


| | | | | |
|---|---|--|--|---|
|  |  Color Adjust Item | <input type="button" value="OK"/> <input type="button" value="Cancel"/> | Adjust Color Level automatically. If the image adjusted is good, select "ok" or not, select "cancel" and adjust again. | |
| |  Super RGB Item | <input type="button" value="OK"/> <input type="button" value="Cancel"/> | Setting up s-RGB mode. Automatic adjustment for Color Level. | |
| |  Color Temperature Item |  |  | User can adjust warmness as users please. |
| |  4200K | Adjust the warmness of the image displayed. The higher temperature the coolest image looks like. The lower temperature the warmest image looks like. | | |
| |  5000K | | | |
| |  6500K | | | |
| |  7500K | | | |
| |  9300K | | | |

4.1.3 Image Control




| | | | |
|---|---|---|---|
|  |  Image Auto Adjust Item | <input type="button" value="OK"/> <input type="button" value="Cancel"/> | Auto adjustment H,V Position of image and Clock & Phase. If the result adjusted is good, select "ok" or not, select "cancel" and adjust again |
| |  H-Total Adjust Item |  | Adjust increase/decrease image of horizontal size |
| |  Phase Adjust Item |  | Adjust data sampling position of image. |
| |  H-Position Adjust Item |  | Move the image horizontally. |
| |  V-Position Adjust Item |  | Move the image horizontally. |

4.1.4 OSD utility

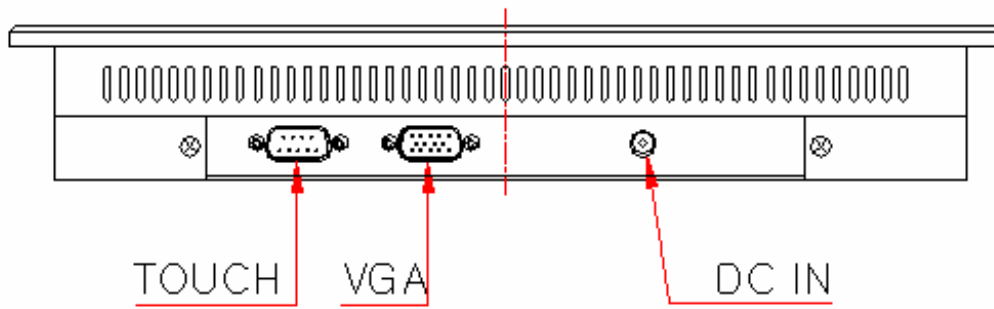
| | | | |
|---|---|---|---------------------------------|
|  |  OSD Adjust Item |  OSD Display Time Adjust Item | Adjust OSD display time. |
| | |  OSD H-Position Adjust Item | Move the OSD menu horizontally. |
| | |  OSD V-Position Adjust Item | Move the OSD menu vertically. |
| |  User Value Initial Item | Reset user's value | |
| |  Image Sharpness Adjust Item |  128 | Adjust sharpness of the image. |
|  DOS Mode Select Item | Adjust Dos screen resolution to 640 x 400 or 720 x 400 | | |

| | | |
|---|----------------|----------|
|  | Menu Exit Item | OSD Exit |
|---|----------------|----------|

4.1.5 Warning Message

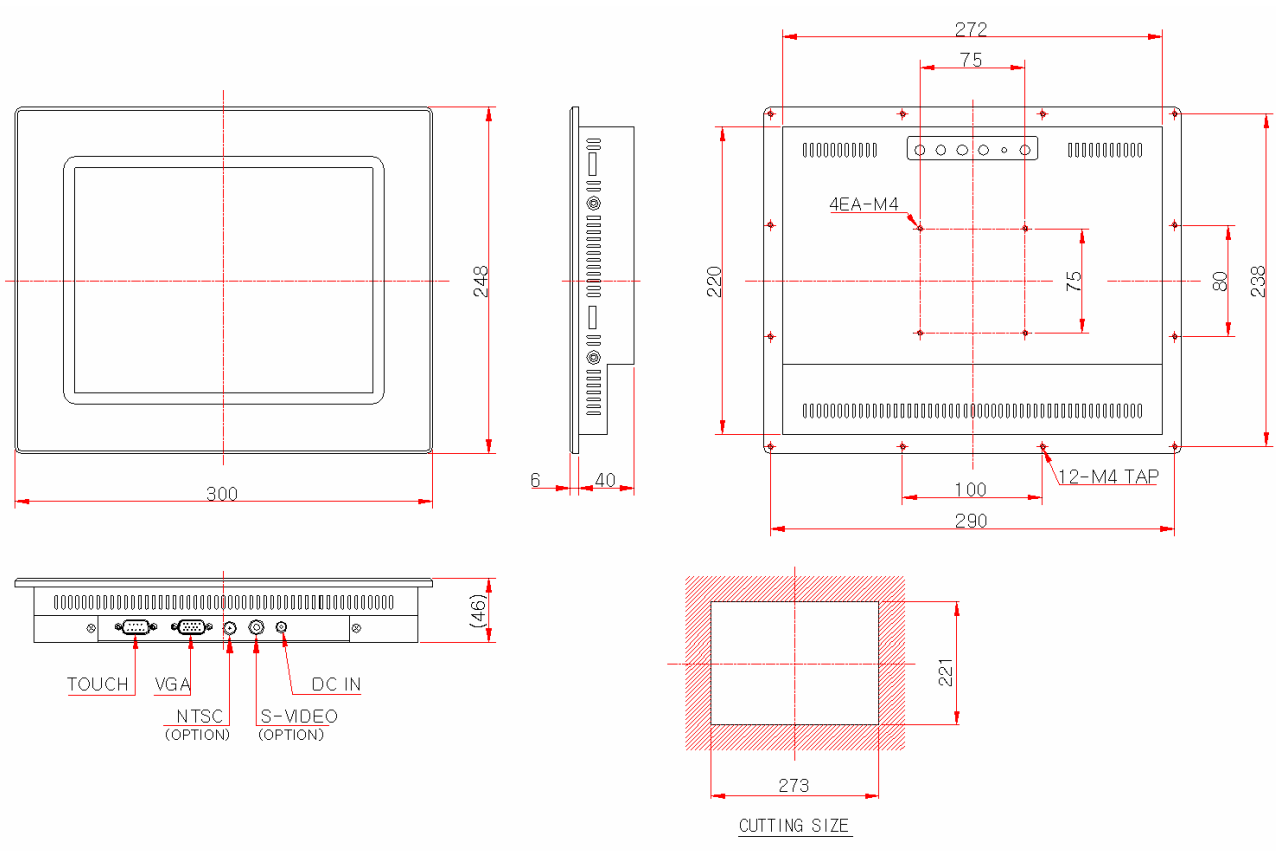
| | | |
|---|--------------|---|
|  | No Cable | In case of not connected PC VGA Cable with A/D Controller, the message "No Cable" is displayed. |
|  | No signal | If there is no PC VGA Signal(R,G,B H-SYNC, V-SYNC), the message "No Signal" is displayed. |
|  | Out of Range | <p>In case of detecting the mode (resolution) that cannot be totally supported by LCD.</p> <p>In order to remove the phenomenon, it should be adjusted into the mode (resolution) that can be supported by LCD.</p> |

5. Connectors



- TOUCH Is optional

6. Dimensions



Appendix

1. Packing List

LCD Monitor

LCD Monitor Manual

AC Adapter

VGA Cable

Fix Block 4 pcs

Touch Cable (Optional)

Touch Screen Install CD-ROM (Optional)

Touch Screen User's Manual (Optional)